

What is claimed is:

1 1. A base for transforming an inductor, consisting of a core and  
2 a coil having two terminals, into a surface mounted device,  
3 comprising:

4 an insulating element;

5 a first conductive element, substantially Z-shaped, said  
6 first conductive element including a strip of first stem, said  
7 insulating element partially exposing a lower surface of said  
8 first conductive element and said first stem, a remaining  
9 portion of said first conductive element embedded in said  
10 insulating element; and

11 a second conductive element, substantially Z-shaped, said  
12 second conductive element including a strip of second stem,  
13 said insulating element partially exposing a lower surface  
14 of said second conductive element and said second stem, a  
15 remaining portion of said second conductive element embedded  
16 in said insulating element, a terminal of said first  
17 conductive element extending toward said second stem.

1 2. The base according to claim 1, wherein said insulating element  
2 further comprises an upper surface having a cavity formed  
3 thereon for accommodating said inductor.

1 3. The base according to claim 1, wherein said insulating element  
2 further comprises a flat bottom surface.

1 4. The base according to claim 1, wherein said exposed lower  
2 surface of said first conductive element and said exposed  
3 lower surface of said second conductive element are arranged  
4 on the same level.

1 5. The base according to claim 1, wherein said first and second  
2 stems further comprise at least one recessed edge,

3 respectively.

1 6.The base according to claim 1, wherein said coil has two  
2 terminals wound around said respective recessed edges.

1 7.The base according to claim 1, wherein said first conductive  
2 element and said second conductive element are made of metal.

1 8.The base according to claim 1, wherein said insulating element  
2 is made of plastic.

1 9.A base for transforming an inductor, consisting of a core and  
2 a coil having two terminals, into a surface mounted device,  
3 comprising:

4 an insulating element, including an upper surface having a  
5 first cavity formed thereon for accommodating said inductor;  
6 a first conductive element, substantially Z-shaped, said  
7 first conductive element further comprising:

8 a first section, embedded in said insulating element;

9 a second section, partially embedded in said insulating  
10 element, said second section including a strip of first stem,  
11 said insulating element exposing said first stem and a lower  
12 surface of said second section, said first stem including  
13 at least one recessed edge;

14 a first bend section, embedded in said insulating element,  
15 said first section connecting with said second section by  
16 means of said first bend section, a drop formed between said  
17 first bend section and said second section; and

18 a second conductive element, substantially Z-shaped, said  
19 second conductive element further comprising:

20 a third section, embedded in said insulating element;

21 a fourth section, partially embedded in said insulating  
22 element, said fourth section including a strip of second

23 stem, said insulating element exposing said second stem and  
24 a lower surface of said fourth section, said second stem  
25 including at least one recessed edge; and  
26 a second bend section, embedded in said insulating element,  
27 said third section connecting with said fourth section by  
28 means of said second bend section, a drop formed between  
29 said second bend section and said fourth section; and  
30 wherein said first section extending toward said fourth  
31 section, said third section extending toward said first stem.

1 10. The base according to claim 9, wherein said core is partially  
2 embedded in said first cavity.

1 11. The base according to claim 9, wherein said first section  
2 extends toward said fourth section and crosses a virtual  
3 cross-sectional line extending from said first section to  
4 said third section.

1 12. The base according to claim 9, wherein said third section  
2 extends toward said first stem and crosses a virtual  
3 cross-sectional line extending from said first section to  
4 said third section.

1 13. The base according to claim 9, wherein said insulating  
2 element further comprises a flat bottom surface.

1 14. The base according to claim 13, wherein said lower surface  
2 of said second section and said lower surface of said fourth  
3 section are arranged on the same level.

1 15. The base according to claim 9, wherein said coil has two  
2 terminals wound around said respective recessed edges.

1 16. The base according to claim 9, wherein said first conductive

2 element and said second conductive element and made of metal.

1 17. The base according to claim 9, wherein said first conductive  
2 element and said second conductive element further comprises  
3 an upper surface having at least one second cavity and a lower  
4 surface having at least one second cavity, respectively.

1 18. The base according to claim 9, wherein said insulating  
2 element is made of plastic.

1 19. A base for transforming an inductor consisting of a core and  
2 a coil having two terminals into a surface mounted device,  
3 comprising:

4 an insulating element accommodating said inductor;

5 a first conductive element substantially Z-shaped; and

6 a second conductive element substantially Z-shaped;

7 wherein said two terminals wound around said first conductive  
8 element and said second conductive element.